



This activity is made possible through a partnership between ASU-Mountain Home's Teacher Education program and Friends of the North Fork & White Rivers.

Measuring Objects Along the Trail

Grade Level: 3-5

Subject: Geometry

Objectives & Frameworks: 2.GM.4: Demonstrate how the length of an object does not change, regardless of the units used to measure it, by measuring the length of an object twice; use two different length units, describing how the two measurements relate to the size of the chosen unit.

Materials: Ruler, [worksheet](#), pencil/pen

Time: 30 minutes

Introduce and Demonstrate skill/strategy/content: Begin by asking students if they know how to use a ruler. Explain to students that no matter the unit (inches, centimeters, feet, etc.) the object does not change length.

Describe Guided Practice: Students will find two objects that can be measured with a ruler. They will measure first in inches, and a second measurement in centimeters. Discuss why the number of centimeters is larger than the number of inches. Lead students to recognize a smaller unit (like centimeters) can result in a larger number compared to larger units (like inches).

Review/Independent Practice: Have students find 2 objects and measure with a ruler in both inches and centimeters. They will record their answers on the [worksheet](#) and then compare their answers and explain why there is a difference.

Formative Assessment: Observe the students and make sure they are measuring correctly!

Modifications/Accommodations: To challenge the students more, have them complete the bonus. Help where needed!